

OBS-2 SINGLE PIECE, BOW SPRING CENTRALIZER

ENGINEERING SOLUTIONS FOR LESS CHALLENGING WELLS

The OBS-2 is our most cost competitive single piece, bow spring centralizer. It is recommended for onshore vertical, horizontal, or deviated wells with build rates of less than $10^{\circ} / 100'$ and horizontal sections less than 10,000 ft.



The OBS-2 is API 10D compliant. Its single piece construction provides strength downhole, while the proprietary heat treatment process makes the bows highly flexible.

The OBS-2 unit is compact in size. Its innovative design provides up to 13.5% improvement on flow by area, compared to standard sized bow spring centralizers. This enhances cementing best practices and supports well integrity.

Due its smaller size, the OBS-2 can be delivered with up to 100% more product on the pallet, reducing transport and storage cost significantly.



STOP COLLARS

The OBS-2 has a corresponding range of high strength stop collars.

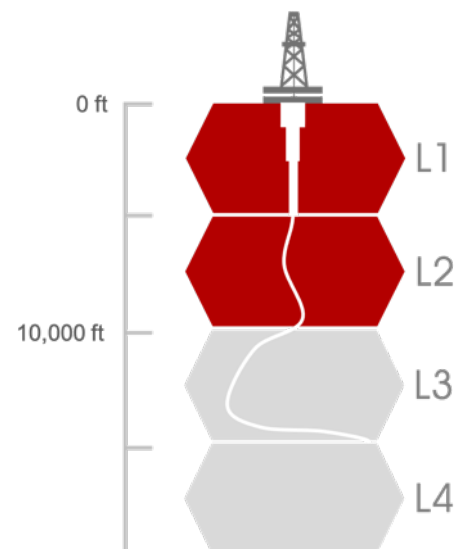
KEY PRODUCT BENEFITS

- Designed to exceed API 10D
- Good standoff
- Excellent fluid dynamics
- Enhanced runability

TARGETED APPLICATIONS

- Onshore
- Vertical, deviated, and horizontal wells
- Reach <10,000 ft
- Build rates of $10^{\circ} / 100'$

PERFORMANCE RATINGS



PRODUCT OVERVIEW



CORE PRODUCT SIZING

| Product Size | PART NUMBER | | | Ex-works location(s) |
|---|----------------|-------------|--|----------------------|
| | Centralizer | Stop Collar | | |
| 4-1/2" ID for use in 6" Hole | 0412-0600OBS-2 | 0412-0SO | | UK, USA, PRC |
| 4-1/2" ID for use in 6-1/8" Hole | 0412-0618OBS-2 | 0412-0SO | | UK, USA, PRC |
| 4-1/2" ID for use in 6-1/4" - 6-3/4" Hole | 0412-0634OBS-2 | 0412-0SO | | UK, USA, PRC |
| 5" ID for use in 6" Hole | 0500-0600OBS-2 | 0500-0SO | | UK, USA, PRC |
| 5" ID for use in 6-1/2" Hole | 0500-0612OBS-2 | 0500-0SO | | UK, USA, PRC |
| 5-1/2" ID for use in 7 7/8" - 8-1/2" Hole | 0512-0812OBS-2 | 0512-0SO | | UK, USA, PRC |
| 5-1/2" ID for use in 8-3/4" Hole | 0512-0834OBS-2 | 0512-0SO | | UK, USA, PRC |
| 7" ID for use in 8-1/2" Hole | 0700-0812OBS-2 | 0700-0SO | | UK, USA, PRC |
| 7" ID for use in 8-3/4" Hole | 0700-0834OBS-2 | 0700-0SO | | UK, USA, PRC |
| 8-5/8" ID for use in 10-5/8" - 11" Hole | 0858-1100OBS-2 | 0858-0SO | | USA |
| 9-5/8" ID for use in 11-5/8" Hole | 0958-1158OBS-2 | 0958-0SO | | UK, USA, PRC |
| 9-5/8" ID for use in 12-1/4" Hole | 0958-1214OBS-2 | 0958-0SO | | UK, USA, PRC |
| 9-7/8" ID for use in 12-1/4" Hole | 0978-1214OBS-2 | 0978-0SO | | UK, USA, PRC |
| 10-3/4" ID for use in 12-1/4" Hole | 1034-1214OBS-2 | 1034-0SO | | USA |
| 13-3/8" ID for use in 16" Hole | 1338-1600OBS-2 | 1338-0SO | | UK, USA, PRC |
| 13-3/8" ID for use in 17-12" Hole | 1338-1712OBS-2 | 1338-0SO | | UK, USA, PRC |
| 13-5/8" ID for use in 17-1/2" Hole | 1358-1712OBS-2 | 1358-0SO | | UK, USA, PRC |
| 14" ID for use in 17-1/2" Hole | 1400-1712OBS-2 | 1400-0SO | | UK, USA, PRC |

*custom sizes are available. Speak to your sales representative for more information.

FULL STRING SOLUTION

| WELL TYPE | ONSHORE | | | | | | ONSHORE + OFFSHORE | | | UNDER-REAM / OFFSHORE | |
|---------------------|--------------|-----------------------|-------------------|--------|--------------|--------------|--------------------------|--------------|-----------|-------------------------|--------------------------|
| | L1 | | | | L2 | L2 & L3 | L3 + (L1+L2) | | | (L3+L4) | |
| WELL LEVEL | OSN | OBH | OBH-W | OBW | OBS-2 | OBS | S2-HD | S2 | S2 Hinged | TUR (Includes variants) | UROS (Includes variants) |
| PRODUCT NAME & TYPE | SOLID BODY | | | | | | BOW SPRING | | | | |
| | Pressed bows | Non-welded with hinge | Welded with hinge | Welded | Single piece | Single piece | Heavy duty, single piece | Single piece | Hinged | Single piece | Single piece |
| FLEXIBILITY (0-8) | 0 | 5 | 5 | 5 | 6 | 4 | 7 | 7 | 7 | 8 | 8 |
| RUNABILITY (0-8) | 5 | 4 | 5 | 5 | 7 | 5 | 7 | 8 | 8 | 8 | 8 |
| STRENGTH (0-8) | 8 | 4 | 5 | 5 | 6 | 7 | 8 | 7 | 7 | 7 | 7 |

For more information talk to our Global Sales team today or use our Product Selector Tool to find the right product for your application – sales@centekgroup.com

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